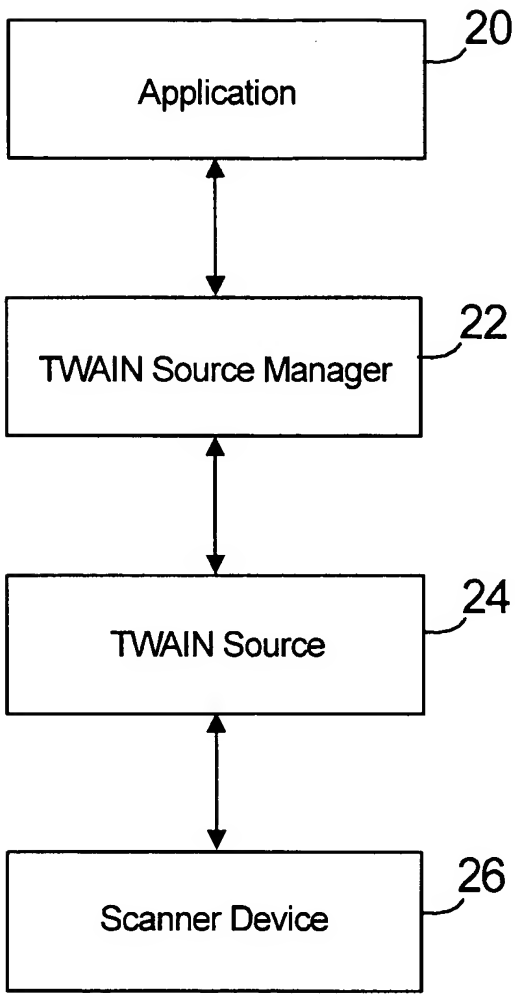
Application
20
TWAIN Source Manager
22
TWAIN Source
24
Scanner Device
26

Figure 1

TWAIN Source User Interface

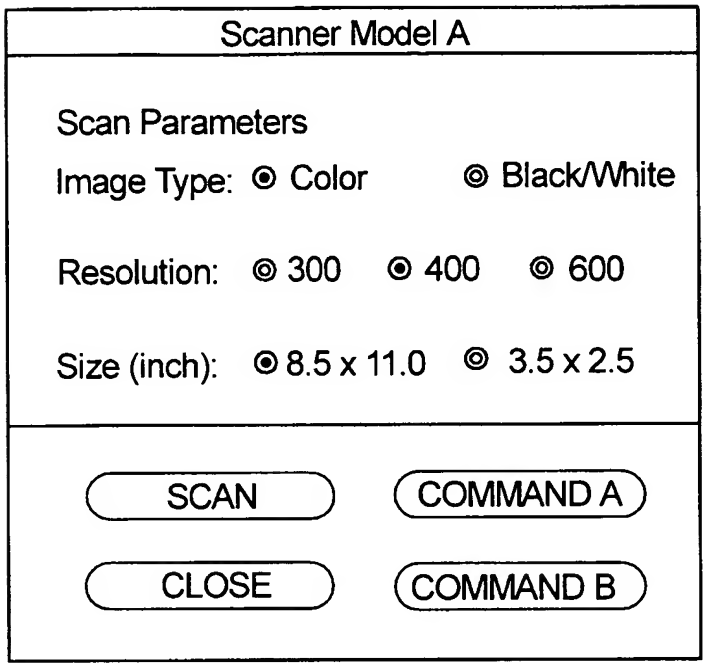

Figure 2

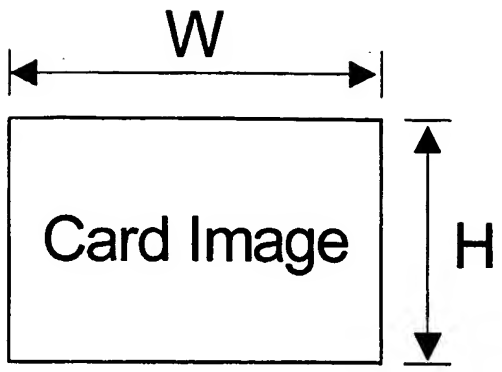

Figure 3A

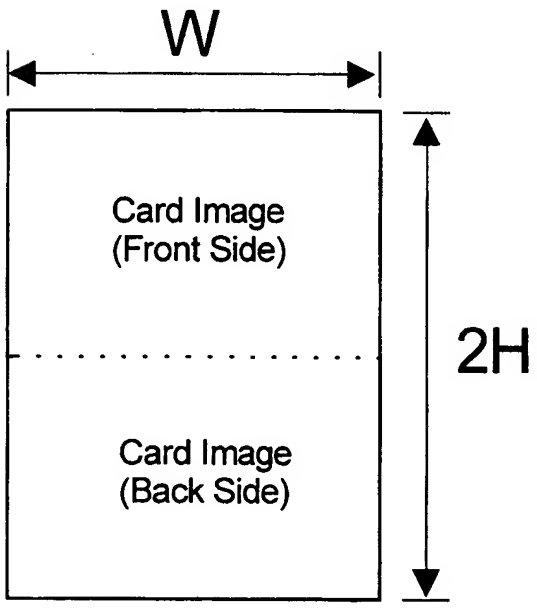

Figure 3B

Vertically
Tiled Images

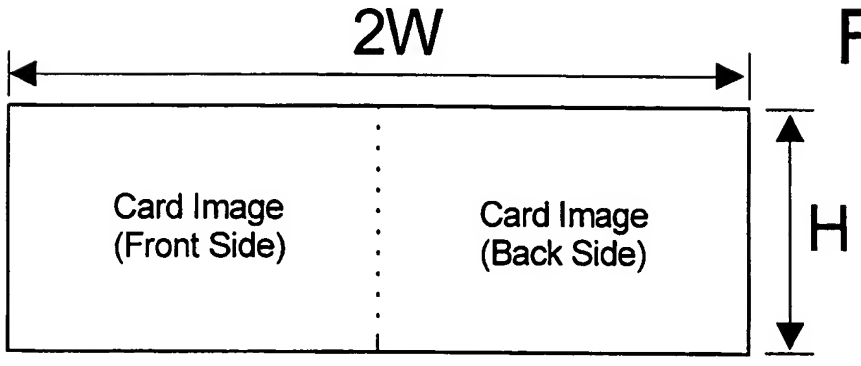

Figure 3C

Horizontally tiled images

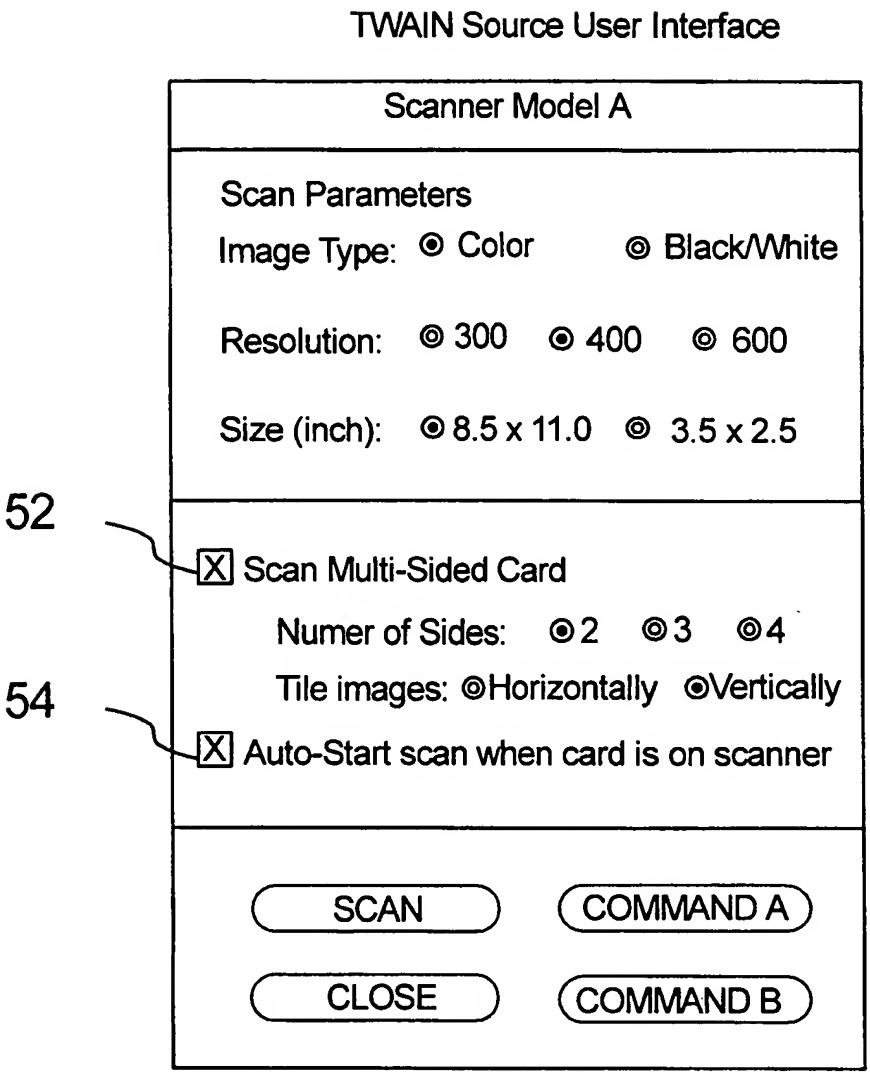
TWAIN Source User Interface
Scanner Model A
Scan Parameters
Image Type: Color Black/White
Resolution: 300 400 600
Size (inch): 8.5 x 11.0 3.5 x 2.5
52
Scan Multi-Sided Card
Numer of Sides: 2 3 4
Tile images: Horizontally Vertically
54
Auto-Start scan when card is on scanner
SCAN
COMMAND A
CLOSE
COMMAND B

Figure 4

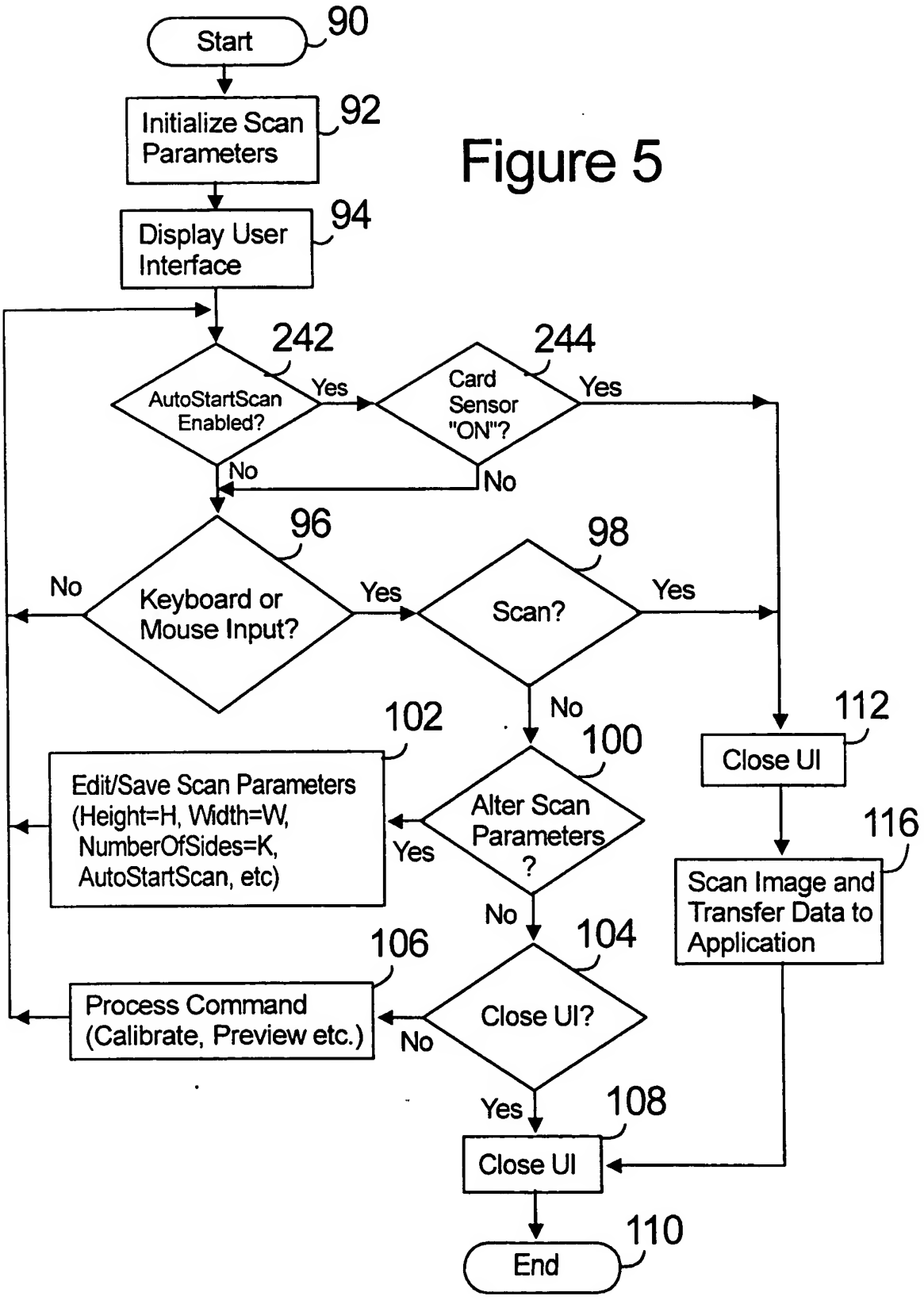
Start
90
Initialize Scan Parameters
92
Display User Interface
94
242
AutoStartScan Enabled?
Yes
No
244
Card Sensor "ON"?
Yes
No
96
Keyboard or Mouse Input?
No
Yes
98
Scan?
Yes
No
102
Edit/Save Scan Parameters (Height=H, Width=W, NumberOfSides=K, AutoStartScan, etc)
100
Alter Scan Parameters ?
Yes
No
106
Process Command (Calibrate, Preview etc.)
104
Close UI?
No
Yes
108
Close UI
110
End
112
Close UI
116
Scan Image and Transfer Data to Application

Figure 5

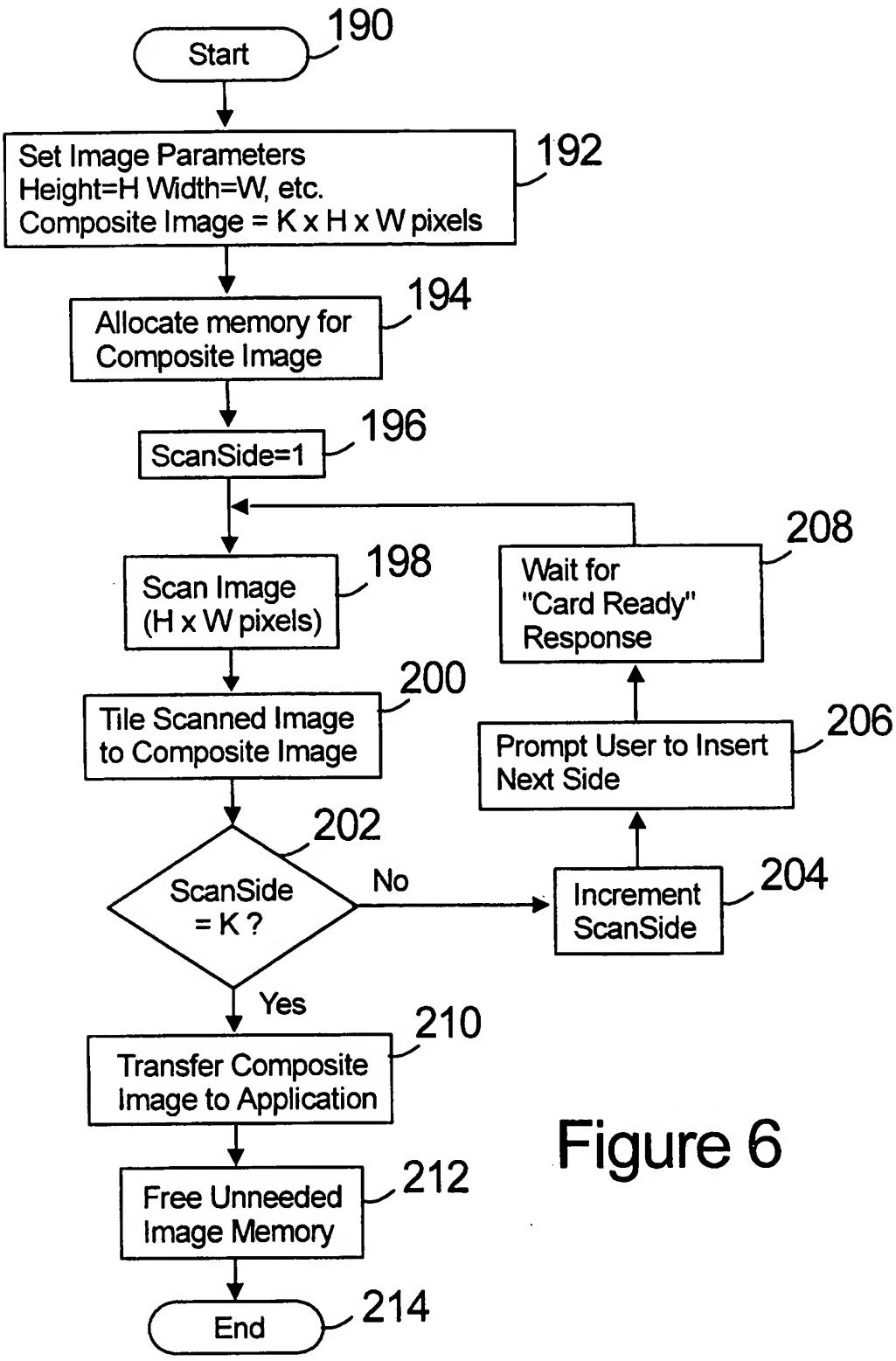
Start
190
Set Image Parameters
Height=H Width=W, etc.
Composite Image = K x H x W pixels
192
Allocate memory for
Composite Image
194
ScanSide=1
196
Scan Image
(H x W pixels)
198
Tile Scanned Image
to Composite Image
200
ScanSide
= K ?
202
No
Yes
Increment
ScanSide
204
Prompt User to Insert
Next Side
206
Wait for
"Card Ready"
Response
208
Transfer Composite
Image to Application
210
Free Unneeded
Image Memory
212
End
214

Figure 6

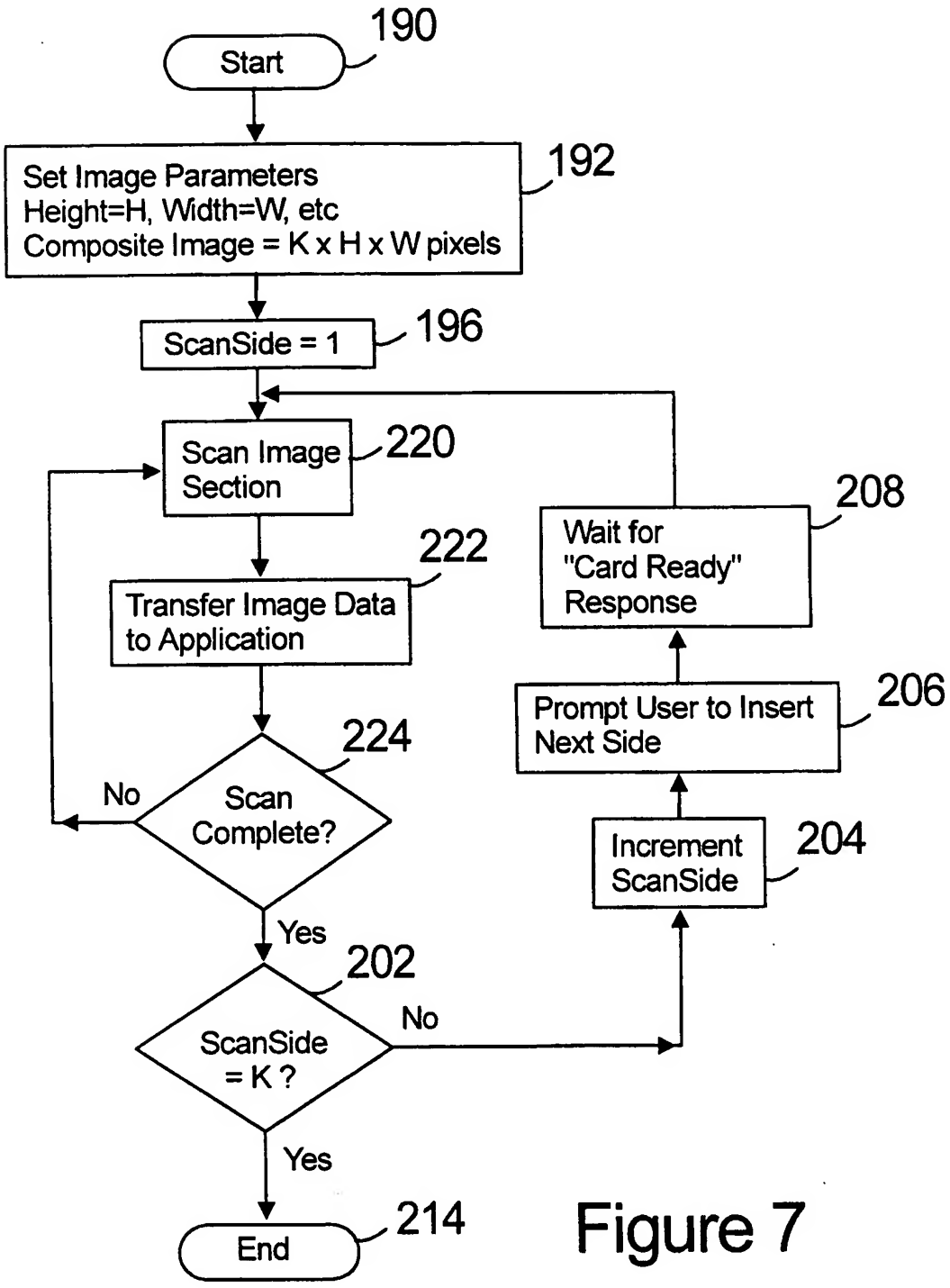
190
Start
192
Set Image Parameters
Height=H, Width=W, etc
Composite Image = K x H x W pixels
196
ScanSide = 1
220
Scan Image Section
222
Transfer Image Data to Application
224
Scan Complete?
No
Yes
202
ScanSide = K ?
No
Yes
214
End
208
Wait for "Card Ready" Response
206
Prompt User to Insert Next Side
204
Increment ScanSide

Figure 7

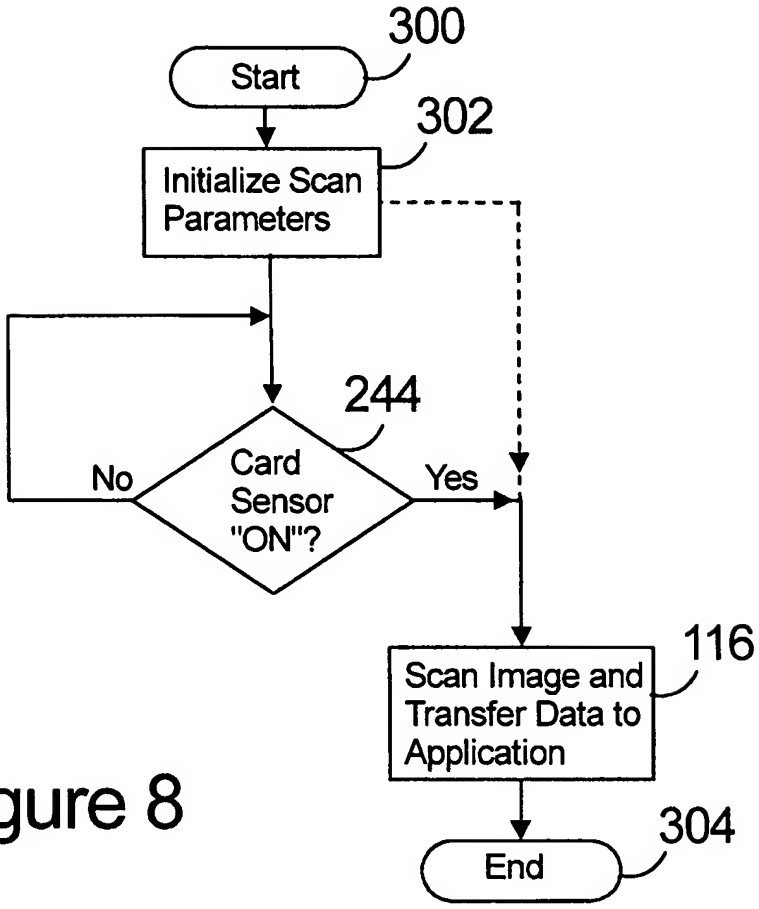
300
Start
302
Initialize Scan Parameters
244
Card Sensor "ON"?
No
Yes
116
Scan Image and Transfer Data to Application
304
End

Figure 8